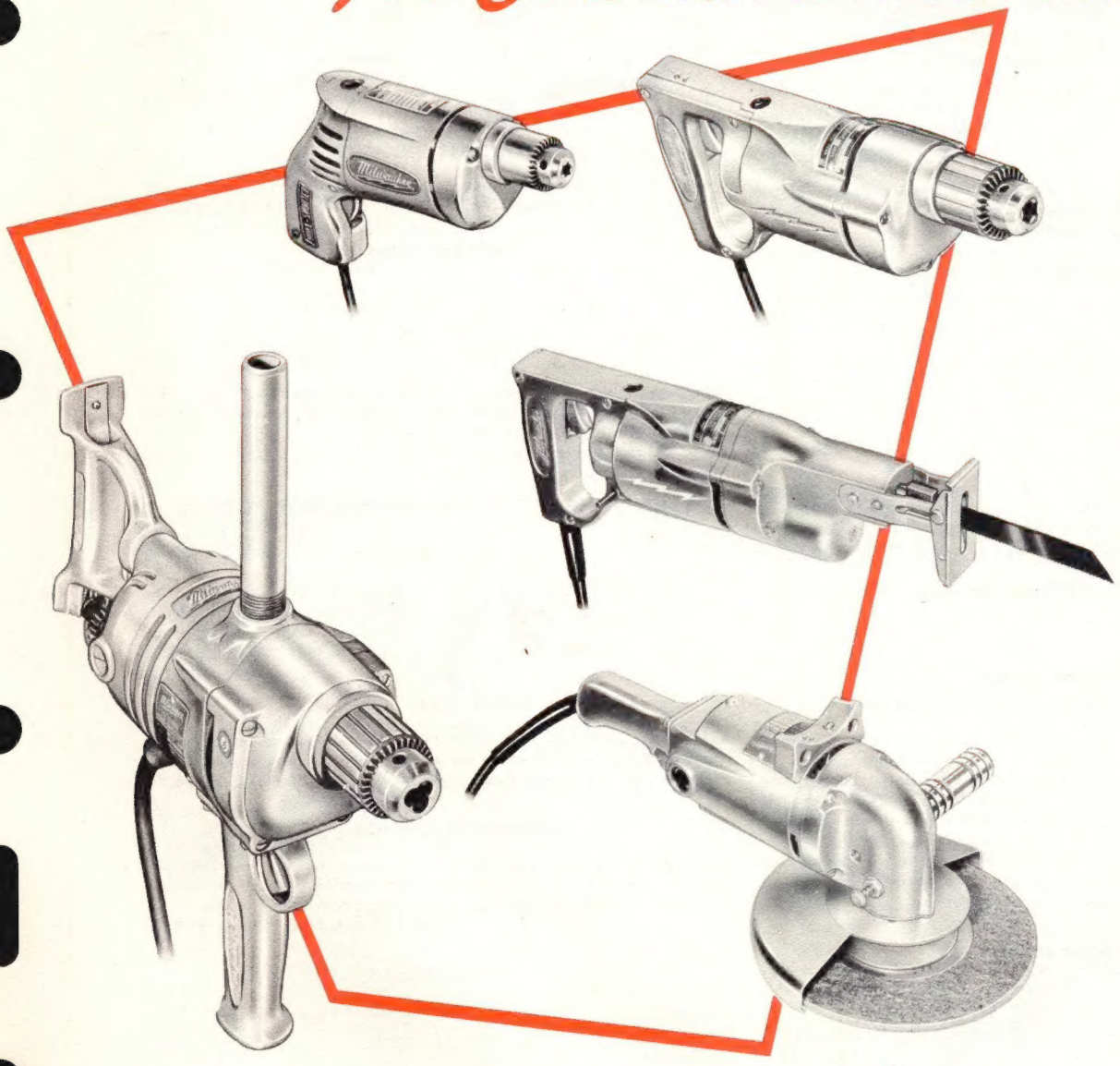
Milwaukee

HEAVY-DUTY

ELECTRIC TOOLS

For Contractors and Industry



DRILLS
•
SAWS
•
SAWZALLS
•
GRINDERS
•
HAMMERS
•
SCREW DRIVERS
•
NUT RUNNERS
•
SANDERS
•
POLISHERS

All prices shown herein are NET to user and apply ONLY within the United States and U. S. possessions . . . and are subject to change without notice.

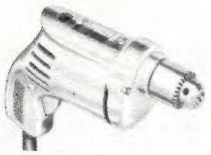
CONDENSED CATALOG G8

Revision 5

PISTOL-TYPE DRILLS

1/4" MODEL 250 "IN-LINE" HOLE-SHOOTER

2.5 amp. MILWAUKEE-BUILT MOTOR



With new "palm push grip". This handful of power is an all ball bearing, ruggedly built, top quality electric drill. Helical cut heat treated and hardened steel gears and shafts, momentary contact switch with locking button. Jacobs industrial gear-type chuck. NET PRICE **$34.50**

SPECIFICATIONS

Capacity: 1/4" in metal. **Length:** 8 3/4". **Speed:** no load, 2000 rpm; full load 1250 rpm. **Net Wgt.:** 3 1/2 lbs. **Shp'g. Wgt.:** 6 lbs.

Available for 115 Volts only.

MODEL B "IN-LINE" HEAVY-DUTY HOLE-SHOOTER

MOST POWERFUL PISTOL DRILL ON THE MARKET
NEW PALM-PUSH GRIP

Puts the push where it counts—directly in line with the chuck. The easiest-to-use, most comfortable drill ever made. Less wrist fatigue — straighter holes — fewer broken twist drills. Double gear reduction . . . Ball and roller bearings throughout. Available in six models of various speeds.

WITH FAMOUS SPLIT-BODY DESIGN

Easily removable cover allows for quick easy access to all motor parts and switch . . . greatly simplifies inspection, cleaning and maintenance.

SPECIFICATIONS

Model No.	Cap. in Steel	Chuck Speed (rpm) No Load	Chuck Speed (rpm) Full Load	Length Inches	Net Wt. (Lbs.)	Ship. Wt. (Lbs.)	Net Price
3B	1/4"	2000	1200	9 1/2	3 3/4	6	$49.50
4B	1/4"	3500	2200	9 1/2	3 3/4	6	49.50
*5B	1/4"	5000	3175	9 1/2	3 3/4	6	49.50
7B	1/4"	2500	1450	9 1/2	3 3/4	6	49.50
2B	5/16"	1000	600	10	3 3/4	6	52.50
1B	3/8"	650	380	10 1/4	4	7	56.00

Spindle size: 3/8" dia. x 24 thread.

* Recommended only for drilling skin aluminum and other non-ferrous materials.

MODEL A SIDE HANDLE GRIP

SHORTEST, MOST POWERFUL, PERFECTLY BALANCED DRILL

A small-size drill that's light, compact, easy to handle . . . and power-packed to carry you through the toughest job without a stall. Available in six models of varying speed ranges. Full ball and roller bearing construction. Trigger type starting switch, with lock button. Split-handle design for easy inspection and maintenance of all motor parts and switch.

SPECIFICATIONS

Model No.	Cap. in Steel	Chuck Speed (rpm) No Load	Chuck Speed (rpm) Full Load	Length Inches	Net Wt. (Lbs.)	Ship. Wt. (Lbs.)	Net Price
33A	1/4"	2000	1200	7 3/4	3 3/4	7	$49.50
44A	1/4"	3500	2200	7 3/4	3 3/4	7	49.50
*55A	1/4"	5000	3175	7 3/4	3 3/4	7	49.50
77A	1/4"	2500	1450	7 3/4	3 3/4	6	49.50
22A	5/16"	1000	600	8	3 3/8	7	52.50
11A	3/8"	650	380	8 1/4	4	7	56.00

Spindle size: 3/8" dia. x 24 thread.

* Recommended only for drilling skin aluminum and other non-ferrous materials.

All Milwaukee Tools are powered with our OWN Universal AC-DC, 0 to 60 cycle motors . . . 115 volts standard. Add $4.00 for all Universal motors other than standard 115 Volts.

Any orders for tools other than standard non-reversing 115 volts are firm orders, not subject to cancellation.

REVERSING MOTORS are available for all tools (where indicated). Add $10.00 or $13.00 extra to prices shown, as indicated for specific models. When desired with reversing motor, add suffix letter "R" to model number when ordering.

MODEL "S" SAW-GRIP HEAVY DUTY DRILLS

1/4" HEAVY-DUTY HOLE SHOOTERS

MODEL S-114

Powered for drilling at maximum capacity in metal, wood or composition materials. Well suited to handle a wide variety of application. NET PRICE **$42.50**

MODEL HS-114 (HIGH SPEED)

A light, rugged drill for continuous heavy-duty production line drilling in sheet metal or soft woods within its rated capacity. NET PRICE **$43.50**

SPECIFICATIONS

Model No.	Cap. in Steel	Chuck Speed (rpm) No Load	Chuck Speed (rpm) Full Load	Length Inches	Net Wt. (Lbs.)	Ship. Wt. (Lbs.)
S-114●	1/4"	1900	1100	10 3/4	5 1/4	8
HS-114	1/4"	2500	1450	10 3/4	5 1/4	8

Both models are equipped with lifetime lubricated ball and roller bearings throughout . . . large multiple blade fan for cooler running . . . windings of high heat resistant wire.

●Available for 230 Volt at $4.00 extra.

TYPE S HEAVY DUTY PRODUCTION DRILLS

MODEL S-214 1/4"

Designed for production line work. Preferred for its ability to stand up under constant use. NET PRICE. . . **$54.50**

MODEL S-256 5/16"

A rugged heavy-duty tool built for continuous use at its full rated capacity. Recommended where slower spindle speed and greater torque characteristics are a prime requisite. NET PRICE. . . **$56.50**

MODELS S-238, SF-238 3/8"

Particularly suited where greater drilling speed and big reserve power are of prime importance. If slightly slower drilling speed is desired, the Model SF-238 is offered as an alternate choice to the S-238. (Either Model) NET PRICE. . . **$58.50**

SPECIFICATIONS

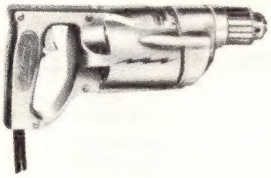
Model No.●	Cap. in Steel	Chuck Speed (rpm) No Load	Chuck Speed (rpm) Full Load	Length Inches	Net Wt. (Lbs.)	Ship. Wt. (Lbs.)
S-214	1/4"	2000	1200	11 7/8	5 1/2	8
S-256	5/16"	1400	900	12	5 1/2	10
S-238	3/8"	1000	600	12 1/4	6 1/4	10
SF-238	3/8"	850	525	12 1/4	6 1/4	10

All models have heat-treated helical cut alloy steel gears and shafts. Grease-sealed ball and roller bearings throughout. Auxiliary side handle included as standard equipment except for Models S-114 and HS-114.

●Available for 230 Volts at $4.00 extra.

For Drill Accessories See Page 11

GENERAL PURPOSE DRILLS



MODEL BF-312 ½"

For general purpose drilling. Ruggedly built and perfect for tough jobs such as drilling in concrete and heavy steel plate, etc. Double gear reduction.
NET PRICE...**$54.50**

SLOW-SPEED HIGH-TORQUE MODELS S-412 and S-512 ½"

A pair of powerful workhorses for slow speed . . . high torque . . . maximum power drilling of large holes in wood or metal, with hole saws, special cutters or expansive bits. Triple reduction gearing provides tremendous drilling torque. The Model S-512 is offered as an alternate choice to the S-412 if a slightly lower drilling speed with higher torque is desired. Either Model NET PRICE...**$60.00**

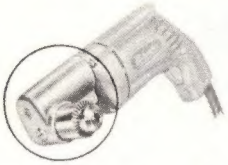
SPECIFICATIONS

Model No.	Cap. in Steel	Chuck Speed (rpm) No Load	Chuck Speed (rpm) Full Load	Length Inches	Net Wt. (Lbs.)	Ship. Wt. (Lbs.)
BF-312	½"	560	340	12¼	6½	10
S-412	½"	450	300	12¼	6¾	10
S-512	½"	320	195	12¼	6¾	10

All the above models have full ball and roller bearings throughout . . lifetime lubricated. Rigid lightweight aluminum die-cast housings and cyclonic type ventilation. Side handle adjustable full 360°, furnished as standard equipment.

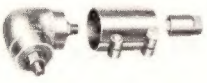
All above Models available with reversing motor at $10.00 extra to prices shown. Add suffix letter R to Model No. when ordering.
All above models available for 230 Volts at $4.00 extra.

RIGHT ANGLE DRIVE UNITS



MODEL RP-1...For Pistol Drill Models. **3B — 2B — 1B — 7B — 33A — 22A — 11A — 77A**...drills with no load speeds of 2500 rpm or less.

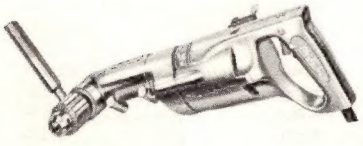
Attaches and locks to Milwaukee Pistol Drills for fast, easy tight spot drilling with chuck transferred from Drill to right angle head unit. Head swivels full 360 degrees and locks in any position.
NET PRICE...**$19.50**



MODEL RAD-2
MODEL RAD-2R (Reversing Unit) } For Saw Grip Drills

Adds 2 more drilling speeds . . . LOW speed with more torque for boring large holes . . . *high* speed for drilling smaller diameter holes. Ideal for drilling between 12" center joists and similarly close quarters. Head swivels full 360°. Clamps in any position. Ball bearing equipped. Not adaptable to Model BF-312 below serial No. 17-6001.
NET PRICE...**$24.50**

RAD 2R (Reversing Unit)....NET PRICE...**$27.50**
Shipping Weight..3 lbs.



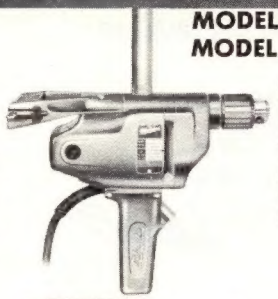
MILWAUKEE drills and RAD-2 available as complete units at net prices shown below. If metal carrying case is desired with tool, add $7.50 to prices shown.

SPECIFICATIONS

Model No.	Chuck Capacity	RPM* Drill Only	RPM* On Low Side	RPM* On High Side	Ship. Wt. Lbs.	Net Price
S-214 RAD	¼"	2000	1300	3000	11	$79.00
S-256 RAD	5/16"	1400	900	2100	13	81.00
S-238 RAD	⅜"	1000	650	1500	13	83.00
SF-238 RAD	⅜"	850	570	1275	13	83.00
▲BF-312 RAD	½"	550	360	825	13	79.00
▲S-412 RAD	½"	450	300	675	13	84.50
▲S-512 RAD	½"	320	215	480	13	84.50

▲ Available with reversing motor at $13.00 extra to prices shown. Add suffix letter R to Model No. when ordering.
* RPM's indicated are at No Load rating.
All above models available for 230 Volts at $4.00 extra.

MODEL 612 MODEL 613 — ½" HOLE-SHOOTER



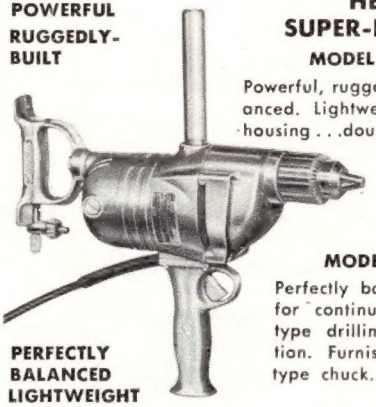
Rugged, compact, powerful . . . All Ball Bearing. 6 amp and ½ HP output at chuck. Double gear reduction on Model 612 . . . Triple gear reduction on Model 613. Most powerful drill of its size and type in the world. Perfect for close-quarter drilling . . . Light enough for use on ladders.
Model 612...NET PRICE...**$65.00**
Model 613...NET PRICE...**$68.00**

- **POWERFUL**
- **RUGGEDLY-BUILT**

HEAVY DUTY SUPER-HOLE-SHOOTERS

MODEL C-122 ½" DRILL

Powerful, ruggedly built and perfectly balanced. Lightweight streamlined aluminum housing . . .double gear reduction.



Furnished with ½" Jacobs key type chuck.
NET PRICE...**$94.50**

MODEL D-582 ⅝" DRILL

Perfectly balanced and Power-A-Plenty for continuous heavy-duty production type drilling . . . double gear reduction. Furnished with ⅝" Jacobs key type chuck. NET PRICE...**$105.00**

- **PERFECTLY BALANCED**
- **LIGHTWEIGHT**

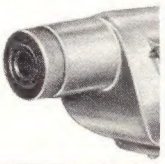
MODEL E343 — ¾" DRILL (400 rpm)
MODEL E349* — ¾" SPECIAL PURPOSE DRILL (900 rpm)
Above models are specifically built for heavy-duty service. Both are furnished with a ¾" Jacobs key type chuck.
*(not recommended for drilling in iron or steel).
Model E-343...**$115.00** Model E-349...**$125.00**

MODEL K-783 ⅞" DRILL WITH NO. 2 MORSE TAPER SOCKET
For use with No. 2 Morse Taper Shank Drills. Slightly slower spindle speed than Model E-343. An abundance of power with maximum torque, ideal for general heavy-duty drilling. NET PRICE...**$120.00**
Model K783-C
NET PRICE...**$125.00** with ¾" Jacobs chuck.

MODEL M-103 1" DRILL WITH NO. 3 MORSE TAPER SOCKET TO ACCOMMODATE NO. 3 TAPER SHANK DRILL BITS
Lightest weight 1" heavy-duty drill on the market. Comparable in power to heavier, higher priced drills of equal or greater capacity.
NET PRICE...**$135.00**

1¼" SUPER ALL PURPOSE DRILLS

Our largest and most powerful drill. Extra long switch and pipe handles afford maximum leverage for drilling. Drives twist drill or reamer with No. 3 Morse Taper Shank.
NET PRICE (all models).....**$160.00**



SPECIFICATIONS

Model No.	Cap. in Steel	Chuck Speed (rpm)	Length Inches	Net Wt. (Lbs.)	Ship. Wt. (Lbs.)
▲612	½"	600	12¼	9½	13
▲613	½"	450	12¼	9½	13
▲C-122	½"	600	16	14¾	19
▲D-582	⅝"	525	16½	15¾	19
▲E-343	¾"	400	16½	16¾	20
†E-349	SPECIAL PURPOSE	900	16½	16¾	20
K-783	⅞"	350	18	15¾	18
†*K783-C	⅞"	350	16½	16¾	18
▲M-103	1"	350	18¾	16½	23
▲T-114	1¼	250	16¾	21½	26
▲T-115	SPECIAL PURPOSE	350	16¾	21½	26
▲T-116	SPECIAL PURPOSE	500	16¾	21½	26
▲T-117	SPECIAL PURPOSE	750	16¾	21½	26
▲T-118	SPECIAL PURPOSE	900	16¾	21½	26

▲ Available reversing . . . For models 612 and 613 add $10.00 to price shown. For all other ▲drill models add $13.00 extra. Add suffix letter R to Model No. when ordering for reversing.
*Furnished with ¾" Jacobs key type chuck.
† Available 115 Volt only.
Unless otherwise indicated all above models are available for 230 Volts at $4.00 extra.

MODEL LA-30A LONG ARM EXTENSION Designed for use with Right Angle Drive drill. For drilling in hard to reach spots overhead. Adjustable working range from 7 ft. to 12 ft. **Net Weight**...17 lbs. **Shipping Weight**...17 lbs. NET PRICE...**$29.90**

For Drill Accessories See Page 11

SCREW-DRIVERS — NUT-RUNNERS

MODEL 614B AND 614M WITH POSITIVE DRIVE CLUTCH

Ideal for driving wood screws where counter sinking is important. NET PRICE..**$70.00**

† Available reversing . . . See note below table.

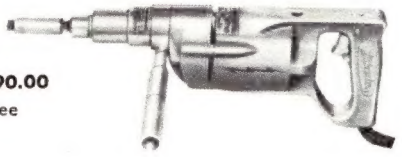
MODEL 615B AND 615M . . . WITH ADJUSTABLE TORQUE RELEASE CLUTCH

Clutch tension adjusted to any desirable driving torque with ordinary hand screwdriver through throat opening of driver unit.

†Available reversing . . . See note below table.

615B — NET PRICE. . . **$80.00**
615M — NET PRICE. . . **$82.00**

MODEL 624 WITH POSITIVE DRIVE CLUTCH



For heavy duty service. Driving action stops upon release of forward pressure. Full Ball and Roller bearings. NET PRICE. . . **$90.00**

† Available reversing . . . See note below table.

MODEL 625 . . . WITH ADJUSTABLE TORQUE RELEASE CLUTCH

For heavy duty use. Clutch disengages automatically when screws or nuts are set. To adjust turn knurled collar to right or left to increase or decrease driving tension. NET PRICE. . . **$115.00**

† Available reversing . . . See note below table.

SPECIFICATIONS

Model No.†	Speed (r.p.m.)	Capacity		Bit Shank Size	Spindle Offset	Length In Inches	Net Weight Lbs.	Shipping Weight Lbs.
		Wood Screws	Bolts & Nuts					
614B	650	Nos.	Nos.					6
614M	1000	4 to 12	4 to ¼	¼" Hex	¾"	10	4½	7
615B	650							7
615M	1000	4 to 12	4 to ¼	¼" Hex	¾"	11	4½	7
624	450	10 to 16	10 to ⅜	7/16" Hex	1"	13¾	9	11
625	450	10 to 16	10 to ⅜	7/16" Hex	1"	15	8½	11

† Reversing motor available at $10 extra to price shown, and add suffix letter R to Model No. when so ordering.
All above models available for 230 Volts at $4.00 extra.

STANDARD EQUIPMENT — Model 614 and 615 series. 3 bits* with finders, one ¼" Hex Shank Driver. 3 varied tension torque release springs for Model 615 series only.
* To fit No. 6, 8 and 10 flat head and No. 8, 10 and 12 round head screws.

STANDARD EQUIPMENT — Model 624 and 625 Series . . . 3 bits▲ with finders, one 7/16" Hex Shank driver for ½" drive sockets. 2 varied tension torque release springs for Model 625 only. Auxiliary side handle for Models 624 and 625.
▲To fit No. 10, 12 and 14 flat head and No. 12, 14 and 16 round head screws.

MODEL SDA-1 SCREW DRIVER UNIT

With positive clutch. Adaptable only to drill Models S-412 and S-512. 3 sizes of bits with finders and one 7/16" hex. shank ½" square driver for ½" drive sockets are included as standard equipment.

Net weight 1 lb., **shipping weight** 4 lbs.
NET PRICE. . . **$29.50**

SCREW SHOOTER ACCESSORIES

PHILLIPS SCREW BIT

SCREW DRIVER BIT

HEX. SHANK SQUARE DRIVER

BIT WITH FINDER FOR MODELS 614B, 614BR, 615B, 615BR 624-624R, 625-625R

BIT WITH FINDER FOR MODELS 614B, 614BR, 615B, 615BR

1/4" HEX. SHANK BITS FOR SLOTTED HEAD SCREWS

FOR MODELS 614B, 614M, 615B, 615M

Screw Size	3½" O.A. Length Bit Only		3½" O.A. Length Bit and Finder		1-15/16" O. A. Lgth. Bit Only	
	Part No.	Net Price	Part No.	Net Price	Part No.	Net Price
6F- 8R	320-M	**$1.15**	M-320	**$2.30**	320-3	**$0.50**
8F-10R	320-P	**1.40**	P-320	**2.50**	320-4	**.65**
10F-12R	320-R	**1.50**	R-320	**2.50**	320-5	**.70**
12F-14R	320-S	**1.65**	S-320	**2.80**	320-6	**.75**
14F-16R	320-T	**1.80**	T-320	**3.20**	....	....
Phillips No. 2	....	....	.....	....	492	**.55**
Phillips No. 3	....	....	.....	....	493	**.75**

Screw Size	Finders for 1-15/16" Bits		Insert Bits		Insert Bit Holder	
	Part No.	Net Price	Part No.	Net Price	Part No.	Net Price
6F- 8R	6A68-1	**$0.90**	445-2	**$0.45**	490 For Use with Insert Bits	**$2.25**
8F-10R	6A810-1	**.90**	445-3	**.45**		
10F-12R	6A1012-1	**.90**	445-4	**.45**		
12F-14R	6A1214-1	**.90**	445-5	**.45**		
14F-16R	....	....	445-6	**.45**		
Phillips No. 2	....	....	440-2	**.45**		
Phillips No. 3	....	....	440-3	**.45**		

¼" Square Driver 2" long (for sockets) . . . . . **EX-250 B $2.25**

7/16" HEX. SHANK BITS for SLOTTED HEAD SCREWS

FOR SCREW-DRIVER MODELS 624-624R, 625 and 625R

Screw Size	3½" O.A. Length Bit Only		3½" O.A. Length Bit and Finder	
	Part No.	Net Price	Part No.	Net Price
8F-10R	321-P	**$1.40**	P-321	**$2.50**
10F-12R	321-R	**1.40**	R-321	**2.50**
12F-14R	321-S	**1.40**	S-321	**2.80**
14F-16R	321-T	**1.50**	T-321	**3.20**
16F-18R	321-U	**1.50**	U-321	**3.20**
18F-20R	321-U	**1.50**	U-321	**3.20**
20F-22R	321-W	**1.85**	W-321	**3.30**
Phillips No. 2	482	**1.00**		
Phillips No. 3	483	**1.00**		

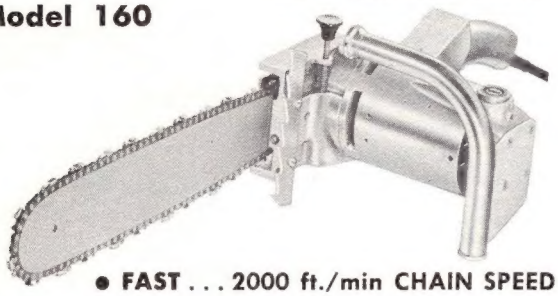
Insert Bits for Phillips Head Screws			Insert Bit Holder	Net Price
No. 2 Phillips Insert Bit.	480-2	**$0.45**	480 For Use with Insert Bits	**$2.40**
No. 3 Phillips Insert Bit.	480-3	**.45**		
No. 4 Phillips Insert Bit.	480-4	**.45**		

½" Square Driver 3" long (for Sockets) EX-501 **$4.50**

(All prices for accessories are NET as shown)

PORTABLE Electric Powered 16" CHAIN SAW

Model 160

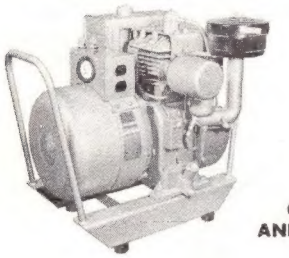


- **FAST . . . 2000 ft./min CHAIN SPEED**
- **POWERFUL . . . FULL 2 HP AT THE CHAIN**
- **LIGHTWEIGHT . . . PERFECTLY BALANCED Weighs Only 17½ lbs.**
- **QUIET . . . SMOOTH, DEPENDABLE ELECTRIC POWER. NO STARTING PROBLEMS REGARDLESS OF WEATHER**

Operates On Std. 115 Volt AC DC Current or with portable generator equipment

NET PRICE $125.00 Net Weight **17½** lbs. Shipping Weight **24** lbs.

PORTABLE ELECTRIC GENERATING SETS



13 Models
750 to 3500 Watts
AC — 60 Cycle Units Only
Electric or Manual Start

COMPLETE SPECIFICATION DATA AND PRICES AVAILABLE ON REQUEST

Model 200 SHEAR

Makes clean, smooth, accurate cuts in and through 16 gauge sheet metal or galvanized iron. Fast, powerful, shearing action. Easily cuts straight lines or irregular shapes and curves down to ½" radius. Also cuts up to 17 gauge stainless and to 50% above rated capacity in copper, aluminum and other non-ferrous metals. Cutting operation always visible. 9 amp. heavy-duty MILWAUKEE-Built motor.

Net Weight .....5 lbs.
Shipping Weight .....9 lbs. NET PRICE...**$110.00**

PITTSBURGH LOCK HAMMER

Handles 30 to 22 Gauge Sheet Metal MODEL PLH-1

The MILWAUKEE PLH-1 Hammer speeds up and takes the work out of the only tedious, costly, and time consuming job of fabricating duct work . . closing the "seam." Actually can save half of a man's time in making ducts and do a better job.

on Net Weight.....10 lbs.
can Shipping Weight .....14 lbs.
NET PRICE...**$137.50**
Available for 230 Volt at $4.00 extra.

Model H834 ELECTRIC HAMMER

Limited set including Model H-834 hammer complete with taper star drill chuck, ½" star drill, drift key, tool retaining spring, grease gun, grease and handy all steel carrying case. NET PRICE...**$140.00**

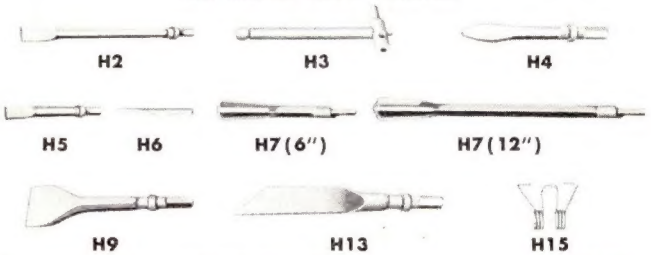
SPECIFICATIONS

Efficient Operating Limit.....3/16" to 7/8"
Maximum Operating Dia. .....1 1/8"
Capacity in Average Concrete — ½" hole, 3" deep in one minute.
Blows per minute.....approximately 3000
Length overall .....16 7/8"
Net Weight.....11½ lbs. **Shipping Weight**.....26 lbs.

MODEL H-834A

Complete set includes Electric Hammer with taper star drill chuck, one drift key, one tool retaining spring for chisels, one each: bull point, cold chisel, brick cleaning chisel, and mortar cutting chisel, eight assorted star drills, ¼", 5/16", 3/8", 7/16", ½", 5/8", ¾", and 7/8" sizes, a grease gun, grease and handy all steel carrying case. **Shipping weight** 30 lbs.
NET PRICE...**$155.00**

ELECTRIC HAMMER ACCESSORIES FOR MODEL H834 HAMMER



H2	Cold Chisel, 5/8"x12" (Hex Shank)	**$4.75**
H3	Star and Hamrtwist Drill Chuck	**3.75**
H3a	No. 14 Rawl Drill Chuck (for Rawl drills No. 6 to 14 incl.)	**3.75**
H3b	No. 20 Rawl Drill Chuck (for Rawl drills No. 16 to 5/16", 20 to 3/8", 7/16" to 7/8")	**3.75**
H4	Bull Point 5/8"x12" (Hexagon Shank)	**4.75**
H5	Cold Chisel 5/8"x7" (Hexagon Shank)	**4.00**
H6	Drift Pin for Star and Rawl Drill Chucks	**.50**

STAR DRILLS (MILWAUKEE Taper Shank)

Diameter	6"	12"	Diameter	6"	12"
¼" 7H6-14	**$1.50**	7H12-14 **2.20**	5/8" 7H6-58	**1.50**	7H12-58 **2.40**
5/16" 7H6-56	**1.50**	7H12-56 **2.20**	¾" 7H6-34	**1.50**	7H12-34 **2.40**
3/8" 7H6-38	**1.50**	7H12-38 **2.20**	7/8" 7H6-78	**1.80**	7H12-78 **2.70**
7/16" 7H6-76	**1.50**	....	1" 7H6-1	**2.20**	7H12-1 **3.30**
½" 7H6-12	**1.50**	7H12-12 **2.40**	1 1/8" 7H6-118	**2.20**	....

▲ **Use H3 Star Drill Chuck (MILWAUKEE Taper)**

H9	Brick Cleaning Chisel (Hexagon Shank)	**5.00**
H13	Mortar Cutting Chisel (Hexagon Shank)	**4.50**
H15	Tool Retaining Spring	**1.50**
12GB	Type B Hammer Grease...½ lb. can	**0.85**
1GB	Type B Hammer Grease...1 lb. can	**1.25**
1GG-1	Grease Gun — Pump Type	**4.00**

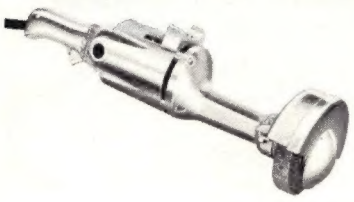
All tools with hexagon shank fit directly into hammer without chuck, and are held in place with H15 Tool Retaining Spring.

PHILLIPS SHELL CHUCKS

PH-14 Phillips Shell Chuck—for S-14 Shell (¼" bolt)	**$4.25**
PH-56 Phillips Shell Chuck—for S-16 Shell (5/16" bolt)	**4.25**
PH-38 Phillips Shell Chuck—for S-38 Shell (3/8" bolt)	**4.25**
PH-12 Phillips Shell Chuck—for S-12 Shell (½" bolt)	**4.25**
PH-58 Phillips Shell Chuck—for S-58 Shell (5/8" bolt)	**4.25**

(All prices for accessories are NET as shown)

HEAVY DUTY PORTABLE GRINDERS



4, 5 and 6-Inch Dia. Wheels

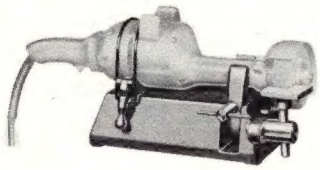
Oversize double-row ball bearings at front end of spindle. Ball bearings throughout. Grit free air intake. Adjustable steel wheel guard and one general purpose grinding wheel included as standard equipment.

SPECIFICATIONS

Model No.	Wheel Dim.	Speed R.P.M.	Length Inches	Net Wt. (lbs.)	Ship. Wt. (lbs.)	Net Price
V-491	4"x1"x½"	6000	21⅝	13½	19	$ 84.50
V-591	5"x1"x⅝"	4000	21¾	15	19	94.50
V-691	6"x1"x⅝"	4000	22	16½	22	105.00

All above models available also for 230 Volts at $4.00 extra.

GRINDER ACCESSORIES



MODEL A-26 BENCH BASE

Quickly converts all Portable Grinders to bench use. Fitted with tool rest that's adjustable to any position. **Shipping weight** 24 lbs.

NET PRICE...**$27.50**

KNOT WIRE WHEEL BRUSHES

Made of 30 ga. wire. Used for cleaning steel surfaces and castings. Removes rust, scale, file marks, etc. Recommended for very severe operations. May be operated at speeds double those of ordinary wire wheels.

4KW12	4"x½" hole (for 4" Portable Grinders)	$3.90
5KW58	5"x⅝" hole (for 5" Portable Grinders)	5.00
6KW58	6"x⅝" hole (for 6" Portable Grinders)	5.40
6KW12	6"x½" hole (for ¼ & ⅓ H.P. Bench Grinders)	5.40
7KW58	7"x⅝" hole (for ½ H.P. Bench Grinders)	6.30
10KW34	10"x¾" hole (for 1 H.P. Bench Grinders)	7.40

Shipping Weight (Avg. per brush) — 2 lbs.

GRINDING WHEELS

For grinding down welds, removing scale, sharpening tools and many other applications. A high quality, long life, fast cutting, general purpose grinding wheel especially adapted to high speed grinder service.

4GW12	4"x1"x½" hole* (for 4" Portable Grinders)	$3.90
5GW58	5"x1"x⅝" hole (for 5" Portable Grinders)	6.00
6GW58	6"x1"x⅝" hole (for 6" Portable Grinders)	6.50
6GW12	6"x¾"x½" hole (for ¼ & ⅓ H.P. Bench Grinders)	4.65
7GW58	7"x1"x⅝" hole (for ½ H.P. Bench Grinders)	6.75
8GW58	8"x1"x⅝" hole (for ¾ H.P. Bench Grinders)	9.30
10GW34	10"x1"x¾" hole (for 1 H.P. Bench Grinders)	11.20

Specify whether fine, medium, or coarse grit is desired.

Shipping Weight (Avg. per wheel) — 2 lbs.

CLOTH BUFFING WHEEL

For polishing and buffing metal surfaces. When coated with glue and dipped in emery grits, they may be used for smooth finish grinding or rough polishing.

4CB12	4"x¾"x½" hole* (for 4" Portable Grinders)	$1.35
5CB58	5"x1"x⅝" hole (for 5" Portable Grinders)	1.95
6CB58	6"x1"x⅝" hole (for 6" Portable Grinders)	2.55
6CB12	6"x¾"x½" hole (for ¼ & ⅓ H.P. Bench Grinders)	2.55
7CB58	7"x1"x⅝" hole (for ½ H.P. Bench Grinders)	3.20
10CB34	10"x1"x¾" hole (for 1 H.P. Bench Grinders)	6.95

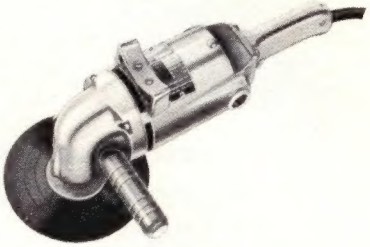
Shipping Weight (Avg. per wheel) — 1 lb.

HEAVY DUTY SANDER-GRINDERS

With MILWAUKEE "Exclusive" Free Wheeling Clutch Drive

Absorbs harmful oscillating action of discs and prevents tooth wearing back lash shock to gears. Result: smoother running, longer tool life.

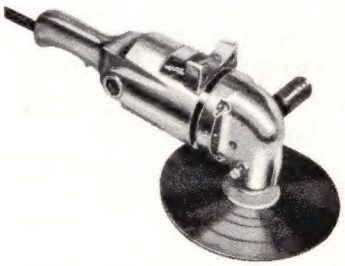
MODEL U-177 — 7"



Sturdily built, light weight, ball and roller bearings throughout and powered by 1¼ H.P. MILWAUKEE-Built AC-DC motor. Well balanced, easy to handle and fitted as standard with nested spring steel backing disc of 5" and 7" dia. One ea. 36 and 60 grit sample sanding disc included.

NET PRICE... **$89.50**

MODEL U-199 9"



Built for toughest jobs. It's cool running and its powerful sanding or grinding action cannot be stalled. Powered by 1½ H.P. MILWAUKEE AC-DC motor and standard equipment includes nested set of 3 spring steel backing discs of 5", 7" and 9" dia. One ea. 36 and 60 grit sample sanding disc included.

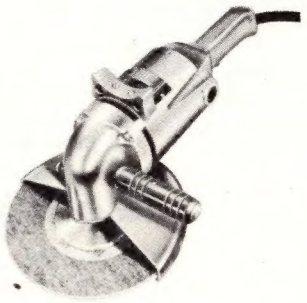
NET PRICE... **$94.50**

MODEL U-199L

Same as Model U-199 less disc assembly and hub. The Model U-199L is offered where grinder is used with cup grinding wheels or cup wire brushes.

NET PRICE... **$89.50**

MODEL U-199W 9"



For production type, heavy-duty grinding applications. The U-199W is equipped with a 9U-100 Rough Grinding 9"x¼"x⅞" hole, nylon impregnated, Safety Reinforced Disc Wheel supported by Alum. Disc Wheel Hub and including guard. Specify Model No. U-199W when ordering.

NET PRICE **$99.50**

SPECIFICATIONS

Model No.	Disc Size	Spindle Thread Size	No Load Speed RPM	Length Inches *	Net Wt. (lbs.)	Ship. Wt. (lbs.)
U-177	7"	⅝"x11"	5000	15½	13	18
U-199	9"	⅝"x11"	5000	15½	13¼	18
U-199W	9"	⅝"x11"	5000	15½	15¼	20
U-199L		⅝"x11"	5000	15½	12¼	17

*Overall length of tool only... not including disc.

All above models available also for 230 Volts at $4.00 extra.

SANDER ACCESSORIES

FLEXIBLE SPRING STEEL BACKING PADS

Lightest weight, most perfectly balanced, indestructible and coolest operating backing pads for smoother and most efficient sanding or grinding. 4" aluminum hub assembly supporting removable 5", 7" and 9" spring steel backing discs.

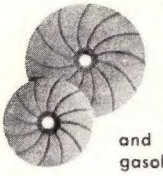
3UP16-700 — 7" Sander Backing Pad Assembly.
Shipping weight, 1¼ lbs. PRICE...**$7.00**

9U16-900 — 9" Sander Backing Pad Assembly.
Shipping weight, 1¼ lbs. PRICE...**$10.00**

(All prices for accessories are NET as shown)

ABRASIVE SANDING DISCS

7" AND 9" DIAMETERS
16-24-36-60- AND 80 GRIT



Extra hard aluminum oxide grits are silicon carbide, phenol resin bonded to a sturdy fiber backing: Special spiral design speeds cutting 12 times faster . . . cools as it cuts . . . lasts 5 times longer before gumming up and because they're waterproof they can be dipped in gasoline and scrubbed for re-use if grit becomes clogged.

Grit	7" DIAMETER			
		Price Each		Carton of 25
16	7G16-1	$0.64	7G16-25	$15.50
24	7G24-1	.50	7G24-25	12.00
36	7G36-1	.50	7G36-25	12.00
60	7G60-1	.43	7G60-25	10.25
80	7G80-1	.41	7G80-25	9.75
Grit	**9" DIAMETER**			
		Price Each		**Carton of 25**
16	9G16-1	$0.85	9G16-25	$20.75
24	9G24-1	.69	9G24-25	16.75
36	9G36-1	.65	9G36-25	15.75
60	9G60-1	.58	9G60-25	14.00
80	9G80-1	.54	9G80-25	13.00

Shipping Weight (Avg. per carton of 25) — 7" dia. — 2 lbs.
9" dia. — 3 lbs.

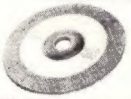
ABRASIVE DISC TRIMMER

MODEL DT-101

Greater savings through reclaiming and re-use of edge-worn abrasive discs can be quickly realized with this tool. Edge-worn discs can be easily cut down to smaller useable diameters for maximum service life and economy. Fitted with adjustable center hole pilot and calibrated indicator, it handles all discs ranging from 4" to 9" diameter.

Shipping Weight — 5 lbs. NET PRICE . . . **$20.00**

SAFETY REINFORCED GRINDING DISCS



With high safety factor permitting high speed operation. Nylon reinforced, they resist breakage from twisting torque or lateral pressure. Available in 7" or 9" diameters.

7U-100	Rough Wheel . . . . . 7"x¼"x⅞" Hole	**$5.75**
7U-200	Finish Wheel . . . . . 7"x¼"x⅞" Hole	**5.75**
9U-100	Rough Wheel . . . . . 9"x¼"x⅞" Hole	**9.25**
9U-200	Finish Wheel . . . . . 9"x¼"x⅞" Hole	**9.25**
79U-120	Alum. Disc. Wheel Hub Adapter (4 oz.)	**1.95**

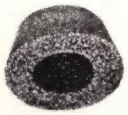
Shipping Weight (Avg. per wheel) — 2 lbs.

7-U3-1 Steel Disc Wheel Guard . . . for 7" dia. Grinder with serial no. 49-4600 and above **$6.50**

9-U3-1 Steel Disc Wheel Guard . . . for 9" dia. Grinder with serial no. 48-3300 and above **$6.50**

Shipping Weight — either size guard . . . . . 2 lbs.

FLARED CUP GRINDING WHEELS



Resinoid bonded . . . for general all-purpose grinding work.

4" dia. 4FCGW-12 . . ½"-13 threaded hole▲ . . **$7.90**
4" dia. 4FCGW-58 . . ⅝"-11 threaded hole* . . **7.90**
5" dia. 5FCGW-12 . . ½"-13 threaded hole★ . . **10.50**
5" dia. 5FCGW-58 . . ⅝"-11 threaded hole† . . **10.50**

* For 7" model U-177 Sander. † For model U-199 and U-199L Sander.
▲ For model U-167 Sanders up to serial no. 156092.
★ For model U-179 Sanders up to serial no. 177681.

4CWG Steel Guard for 4" Flared Cup Grinding Wheels **$5.90**
5CWG Steel Guard for 5" Flared Cup Grinding Wheels **6.25**

Shipping Weight (Avg. per wheel) — 2 lbs.
(Avg. per guard) — 1 lb.

KNOT WIRE CUP BRUSHES

Made of finest quality wire to give long service on tough cleaning jobs.

4" dia. 4KWCB-12 . . ½"-13 threaded hole▲ . . **$6.50**
4" dia. 4KWCB-58 . . ⅝"-11 threaded hole* . . **6.50**
6" dia. 6KWCB-12 . . ½"-13 threaded hole★ . . **10.50**
6" dia. 6KWCB-58 . . ⅝"-11 threaded hole† . . **10.50**

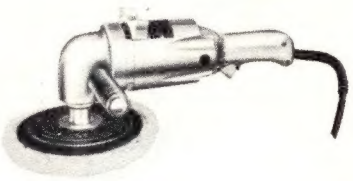
* For 7" model U-177 Sander. † For model U-199 and U-199L Sander.
▲ For model U-167 Sanders up to serial no. 156092.
★ For model U-179 Sanders up to serial no. 177681.

Shipping Weight — 4" Brush — 2 lbs.
6" Brush — 3 lbs.

POLISHERS

7" LIGHTWEIGHT HEAVY DUTY POLISHERS

MODEL P-175—1750 RPM
MODEL P-280—2800 RPM
With MILWAUKEE exclusive coaster-brake clutch drive. Standard equipment includes detachable side handle, 7" resilient rubber backing pad, 7½" deep pile polishing pad, 1 qt. BluShel car polish.



Net Weight (either model) — 9¼ lbs. **P-175** NET PRICE . . **$79.50**
Shipping Weight (either model) — 16 lbs. **P-280** NET PRICE . . **82.50**

9" HEAVY DUTY POLISHER

MODEL P-139

Built to withstand the punishment of continuous day-in and day-out use. 8½" reinforced rubber backing pad, 9" polishing pad, detachable side handle and 1 qt. BluShel polish included as standard equipment.
NET PRICE . . . **$87.50**

Net Weight — 12¾ lbs. **Shipping Weight** — 18 lbs.

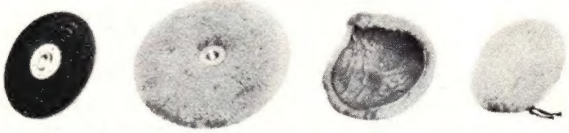
SPECIFICATIONS

Model No.	Speed No Load R.P.M.	Length Inches *	Net Weight (lbs.)	Ship. Weight (lbs.)
P-175	1750	14½	10	17
P-280	2800	14½	10¾	18
P-139	1450	15¼	12¼	20

*Overall length of tool only . . . not including pad.

Both of the above models are equipped with ball and roller bearings throughout, momentary contact, quick release safety switch with lock button for continuous operation. Large multiple blade fan for greater cooling capacity, helical cut heat-treated alloy steel gears and shafts for greater power efficiency and spindle locking button for easy changing of pad or bonnet.

POLISHER ACCESSORIES



MOULDED RUBBER BACKING PAD — AMCOR PAD — LAMBSWOOL PAD — LAMBSWOOL BONNET

75P-180	7" dia.	Moulded Rubber Backing Pad	**$4.50**
9P-180	8½" dia.	Moulded Rubber Backing Pad	**7.50**
75P200	7½" dia.	Polishing Pad	**4.50**
9P200	9" dia.	Polishing Pad	**4.60**
7LWB	7" dia.	Lambswool Bonnets	**2.00**
9LWB	9" dia.	Lambswool Bonnets	**2.25**
7LWP	7" dia.	Lambswool Pad	**2.00**
9LWP	9" dia.	Lambswool Pad	**2.25**

"BluShel" MAGIC POLISH

A high luster polish that cleans, polishes and seals in one easy operation. Leaves a perfectly dry, clean brilliant shine that will last for months.

NET PRICES:
Qt. 75BSQ . . . . . **$1.75** Gal. 75BSG **$5.95**
75BSQC . . . per case of 12 Qts. **$18.90**
75BSGC . . . per case of 6 Gals. **$32.00**

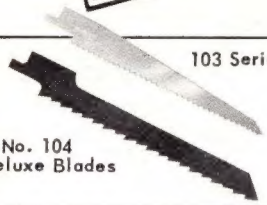
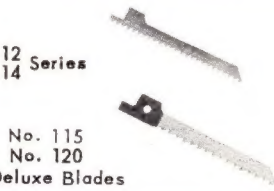
BONNET CLEANING TOOL

75 CT

Cleans, fluffs, vitalizes buffing and polishing bonnets in 60 seconds, while rotating on tool. Removes glazed surface and loosens packed wool in bonnets or pads and prolongs their life. . . . **$4.50**

(All prices for accessories are NET as shown)

Milwaukee SAWZALL HEAVY-DUTY ELECTRIC HACKSAW

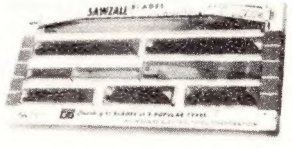
BLADE NO.	Length Inches	No. Teeth Per Inch	RECOMMENDED FOR CUTTING	NET PRICE
 103 Series No. 104 Deluxe Blades	**ROUGHING-IN BLADES**		(Packed, priced and sold in boxes of 5 blades only)	
103-1	6	7	General roughing-in work in wood. Pkg. of 5	$2.90
103-2	12		Will resist embedded nails. Pkg. of 5	4.90
▶104-1	6	6	For fast general roughing-in, sawing wood...	4.50
▶104-2	12	6	resists embedded nails.	4.50
(104-2 DELUXE BLADES Packed, priced and sold in boxes of 3 blades only)				
106 Series	**ALL PURPOSE BLADES**		(Packed, priced and sold in boxes of 10 blades only)	
106-1	3½	6	All woods without nails. Fiberboard, "Transite", asphalt and plaster. 12" blades for making inaccessible flush cuts in wood.	2.40
106-2	6			3.00
106-11	12			6.00
106-3	3½	10	Nail embedded woods. Plywood, asbestos and plaster. 12" blades for making inaccessible flush cuts in nail embedded woods.	2.40
106-4	6			3.00
• 106-4R	6			3.00
106-12	12			6.00
106-5	3½	18	Opening wooden crates and boxes. 12" blades for removing wood siding, asbestos shingles, etc.	2.40
106-6	6			3.00
• 106-6R	6			3.00
106-13	12			6.00
106-7	3½	24	Light gauge non-ferrous metals; aluminum, etc.	2.40
106-8	6			3.00
105 Series	**PLASTER CUTTING BLADES**		(Packed, priced and sold in boxes of 10 blades only)	
105-1	3½	5	Plaster, plaster with metal lath, rock lath, plaster board, etc.	2.50
105-2	6	5		3.60
 112 Series 114 Series No. 115 No. 120 Deluxe Blades	**WOOD SCROLL BLADES** All except 114-1 (Packed, priced and sold in boxes of 5 blades only)			
114-1	3⅝	7	Irregular contours in wood, fiberboard, asphalt and asbestos. (Packed and sold in lots of 10 blades only)	4.40
112-1	3⅝	6	Carbon Stl. } Intricate shapes and scroll cuts in	3.40
▶115-1	3⅝	6	Hi Speed Stl } wood & synthetic structural materials.	4.90
▶120-1	3⅝	6	Hollow ground for fast finish scroll cuts in wood, decorative veneers, formica, plastics, fiberglass, etc.	4.90
116 Series	**METAL SCROLL BLADES**		(Packed, priced and sold in boxes of 10 blades only)	
116-1	3⅝	10	Irregular contours in heavy gauge metal, "Transite" and fiberboard.	6.50
116-2	3⅝	14	Irregular contours in heavy gauge metals.	6.50
110 Series	**HI-SPEED METAL SCROLL BLADES** (Packed, priced and sold in boxes of 10 blades only)			
110-2	2½	18	Irregular contours in sheet metals heavier 18 ga.	3.40
110-3	2½	24	Irregular contours in sheet metals lighter 18 ga.	3.40
117 Series	**HI-SPEED METAL CUTTING BLADES** (Packed, priced and sold in boxes of 10 blades only)			
117-1	2½	14	Metals heavier than ⅛" (Angles, bar stock, "Transite", hard rubber, fiber, etc.)	3.60
117-2	4			4.30
117-9	6			7.20
117-3	2½	18	Metals heavier than 18 gauge; conduit, pipe channels, buting, etc.	3.60
117-4	4			4.30
117-10	6			7.20
117-5	2½	24	Metals lighter than 18 gauge; sheet, trim and tubing.	3.60
117-6	4			4.30
117-11	6			7.20
117-7	2½	32	Very light gauge metals; sheet, trim and tubing.	3.60
117-8	4			4.30
118 Series	**FLEXIBLE BACK**		(Packed, priced and sold in boxes of 10 blades only)	
118-1	4	14	Metals heavier than ⅛" (Angles, bar stock, "Transite," hard rubber, fiber, etc.)	4.00
118-2	6			7.00
118-3	4	18	Metals heavier than 18 gauge; conduit, pipe, channels, tubing, etc.	4.00
118-4	6			7.00
Knife Edge	**KNIFE EDGE BLADES**		(Packed, priced and sold in boxes of 10 blades only)	
107-1	4	Knife	Rubber, sponge, leather, felt and other resilient materials.	4.00
108-1	4	Wavy	Corrugated cardboard, laminated fiberglass tape and sheets, paper, cork, etc.	4.00
109-1	4	Scallop	Rubber, corrugated board, leather, laminated glass tape and sheets, etc.	4.00

▶New Deluxe Blades with Exclusive "Shear Tooth" Design . . . Provides fastest known sawing action . . . easier, cleaner cutting with high resistance to embedded nails. Blades last infinitely longer . . . actually Cut Twice as Fast as other blades . . . Last Ten Times Longer.

• All blades with teeth set to cut up stroke . . . except on 106-4R and 106-6R which have teeth set to cut on down stroke.

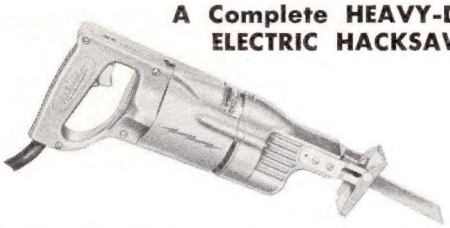
B1 ECONOMY BLADE ASSORTMENT An $18.43 value for **$14.25** NET. Shipping Weight 2 lbs.

Economy set consists of 44 blades of most popular types and sizes used. Complete set includes: (2) 103-1, 104-1, (1) of 103-2, 104-2, (4) of 106-1, 106-2, and 112-1, (5) of 110-2, 117-4 and (8) of 106-3 and 106-4.



Model 414 SAWZALL

A Complete HEAVY-DUTY ELECTRIC HACKSAW



FOR QUICK EASY SAWING OF . . .

WOOD • METAL • PLASTER • PIPE • BUILDERS' TRANSIT

SPECIFICATIONS

Length of Stroke	3/4"
Strokes Per Minute	2250
Overall Length	14 1/2"
Net Weight (lbs.)	6 3/4 lbs.
Shipping Weight (w/case)	18 lbs.
Tool only (less case)	10 lbs.

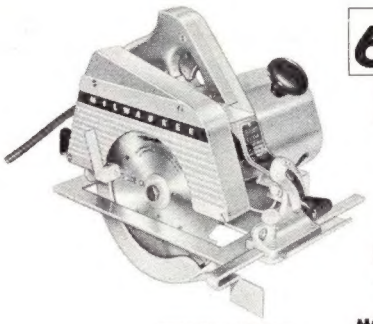
MODEL 414
SAWZALL complete with sample set of assorted Sawzall blades and sturdy steel carrying case.
NET PRICE....**$94.50**

MODEL 414L SAWZALL . . . tool only, less case, but with set of assorted blades. NET PRICE **$89.50**
Available for 230 Volts at $4.00 extra.

NEW SAWS

HI-SPEED HEAVY DUTY TYPE

IN 3 POPULAR DIAMETER SIZES



6 1/2"	7 1/4"	8 1/4"
Model S-16	Model S-17	Model S-18

Full 1 3/4 HP Motor

AND *Exclusive* COASTER-BRAKE CLUTCH DRIVE THAT DOUBLES GEAR LIFE.

SPECIFICATIONS	MODEL S-16	MODEL S-17	MODEL S-18
Saw Blade Size	6 1/2"—5/8" hole	7 1/4"—5/8" hole	8 1/4"—5/8" hole
Depth of Cut at 90°	0" to 2 5/32"	0" to 2 17/32"	3/4" to 3 1/32"
Max. Depth of Cut at 45°	1 3/4"	2 1/32"	2 3/8"
Motor "MILWAUKEE" Universal Type AC-DC	1 3/4 HP	1 3/4 HP	1 3/4 HP
Blade Speed (Idle)	6400 RPM	5800 RPM	5100 RPM
Gearing	Steel-Helical Cut	Steel-Helical Cut	Steel-Helical Cut
Net Weight	14 1/2 lbs.	14 3/4 lbs.	15 lbs.
Ship. Weight (w/case)	29 lbs.	29 lbs.	33 lbs.
NET PRICE * less case	Model S-16L **$69.50**	Model S-17L **$79.50**	Model S-18L **$89.50**
NET PRICE * with case	Model S-16C **$80.00**	Model S-17C **$90.00**	Model S-18C **$100.00**

STANDARD EQUIPMENT — Combination (Rip and Cross Cut) Saw Blade . . . Rip Guide, 3 wire, heavy-duty rubber covered cord complete with unbreakable plug and 2 utility wrenches and sturdy steel carrying case.

HANDY ALL STEEL CARRYING CASE * **Model S-678**
For all MILWAUKEE "S" series Saws.
NET PRICE...**$12.00**
(WHEN PURCHASED SEPARATELY)

* Saw is furnished with case complete unless otherwise specified.

CIRCULAR SAW BLADES AND ACCESSORIES

COMBINATION SAW BLADES

S-601 — 6" dia. x 1/2" hole	**$2.50**
S-651 — 6 1/2" dia. x 5/8" hole	**2.50**
S-751 — 7 1/4" dia. x 5/8" hole	**3.00**
S-821 — 8 1/4" dia. x 5/8" hole	**3.15**

CROSS-CUT SAW BLADES

S-602 — 6" dia. x 1/2" hole	**$2.50**
S-652 — 6 1/2" dia. x 5/8" hole	**2.50**
S-752 — 7 1/4" dia. x 5/8" hole	**3.00**
S-822 — 8 1/4" dia. x 5/8" hole	**3.15**

PLANER BLADE

S-655 — 6 1/2" dia. x 5/8" hole	**$4.75**

FINE TOOTH PLYWOOD BLADE

S-656 — 6 1/2" dia. x 5/8" hole	**$2.50**

RIP-CUT SAW BLADES

S-603 — 6" dia. x 1/2" hole	**$2.50**
S-653 — 6 1/2" dia. x 5/8" hole	**2.50**
S-753 — 7 1/4" dia. x 5/8" hole	**3.00**
S-823 — 8 1/4" dia. x 5/8" hole	**3.15**

FLOORING BLADES

S-604 — 6" dia. x 1/2" hole	**$2.50**
S-654 — 6 1/2" dia. x 5/8" hole	**2.50**
S-754 — 7 1/4" dia. x 5/8" hole	**3.00**
S-824 — 8 1/4" dia. x 5/8" hole	**3.15**

NON-FERROUS METAL CUTTING BLADE

S-659 — 6 1/2" dia. x 5/8" hole	**$4.75**

ABRASIVE CUTTING WHEELS

Safety reinforced nylon impregnated and specially bonded of uniform grit. Available in two types for cutting metal, or concrete, stone, transite, brick, etc.

S-610 — 6" x 1/8" x 1/2" hole — Masonry Cutting	**$3.40**
S-611 — 6" x 1/8" x 1/2" hole — Metal Cutting	**3.40**
S-657 — 6" x 1/8" x 5/8" hole Masonry Cutting (For 6 1/2" & 7 1/4" Saws)	**3.40**
S-658 — 6" x 1/8" x 5/8" hole Masonry Cutting (For 6 1/2" & 7 1/4" Saws)	**3.40**
S-710 — 7 1/2" x 1/8" x 5/8" hole — Masonry Cutting (For 8 1/4" Saws)	**4.50**
S-711 — 7 1/2" x 1/8" x 5/8" hole — Metal Cutting . (For 8 1/4" Saws).	**4.50**

(All prices for accessories are NET as shown)

PLUMBERS RIGHT ANGLE DRIVE KIT

KIT NO. 412K* OR 512K

The S-412 MILWAUKEE drill and RAD-2 Right Angle Drive is furnished in kit form for the special benefit of the plumber. Only tool for drilling around corners, between 12" center joists or similarly close quarters. The Model 412K contains S-412 ½" heavy-duty drill, RAD-2 Right Angle Drive, 1⅛" Auger Bit, 2⁹⁄₁₆" Selfeed wood boring bit, open end wrench and chuck remover pin.

512K Kit: Same as 412K except equipped with S-512 Drill. Provides slower speed and higher torque than S-412.

Shipping Weight 412K...25 lbs. 512K...22 lbs. NET PRICE...**$105.00**

If reversing motor is desired with S-412 or S-512 RAD drill, add $13.00 extra to kit price shown. Add suffix letter **R** to Model No. when ordering.

1CC-1 Metal Carrying Case Only.....NET PRICE...**$7.50**

ELECTRICIANS RIGHT ANGLE DRIVE KIT

KIT NO. 312-K

Ideal for drilling clean cut lead-in holes for B-X, conduit pipe, Romex cables, etc. The Model BF-312 is especially designed, ruggedly built and equipped for the specific job needs of the Electrician. The Model 312-K is furnished complete with BF-312 ½" heavy duty drill, RAD-2 Right Angle Drive, ¾" Electrician's Bit, chuck remover bar, utility wrench and adjustable side handle.

Shipping Weight...21 lbs. NET PRICE...**$85.00**

Reversing motor is available with Model BF-312 drill at $13.00 extra to kit price shown. Add suffix letter **R** to Model No. when ordering.

1CC-1 Metal Carrying Case Only.....NET PRICE...**$7.50**

MILWAUKEE BITS AND EXTENSION SHANKS

Boring holes smoother and faster is standard procedure with MILWAUKEE drill bits. Each tool is made to exact specifications from the best material available, heat-treated, polished or ground to assure durable dependability.

34ATB ¾" x 4" Twist Auger Bits with hex. shanks.....**$4.25**
78ATB ⅞" x 4" Twist Auger Bits with hex. shanks..... **4.60**
1ATB 1 " x 4" Twist Auger Bits with hex. shanks..... **4.90**
118ATB 1⅛" x 4" Twist Auger Bits with hex. shanks..... **5.30**
114ATB 1¼" x 4" Twist Auger Bits with hex. shanks..... **6.20**
138ATB 1⅜" x 4" Twist Auger Bits with hex. shanks..... **6.80**
112ATB 1½" x 4" Twist Auger Bits with hex. shanks..... **7.40**
134SFB..Selfeed Bit..1¾ dia. **218SFB**..Selfeed Bit..2⅛ dia. **296SFB**..Selfeed Bit..2⁹⁄₁₆ dia. — For boring clean, splinter free holes, fast. Double end lead screw feeds bit into work without pressure . . . no grabbing or binding. — **10.30** / **11.00** / **15.00**
Double Feed Screw Pilots (for Selfeed Bits)..... **1SFP** ea. **.95** **12SFP** doz. **10.50**
1AW-2...Allen Wrench ..... **.15**
34EB...¾" Electrician's Bit..... **3.80**
512SFE...5½" Extension Shank (for Auger and Selfeed Bits).. **.75**
12SFE...12" Extension Shank (for Auger and Selfeed Bits).... **1.00**
18SFE...18" Extension Shank (for Auger and Selfeed Bits)... **1.50**
1SFE...Extension Shank Coupling **1.50**

PLUMBER'S "SELFEED" BIT KIT

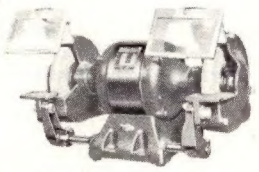
A complete assortment of most commonly used MILWAUKEE bits used for BIG HOLE drilling. Conveniently arranged for easy and ready, "on the job" bit selection. Sizes include ⅞", 1⅛", 1¼" and 1½" Auger Bits and the *Famous* MILWAUKEE "Selfeed" bits in 1¾", 2⅛" and 2⁹⁄₁₆" dia. sizes. Also included are 5½" hex. extension shank and coupling, extra twin head feed screw pilot, Allen wrench, Selfeed bit sharpener disc guide and metal carrying case.

BK-1 .....NET PRICE...**$57.50**
1CC-5 Metal Carrying Case (only).....NET PRICE...**$ 7.00**

BENCH GRINDERS

HEAVY-DUTY AC BENCH GRINDERS

Precision built, smooth running. Designed for continuous production work. Ball bearing equipped. Standard equipment includes: wheel guards, adjustable tool rests, two balanced wheels—one fine and one medium grit.



Items other than standard must be ordered separately . . . See page 6 for prices.

HP	Model No.	Voltages AC 50/60 cycle	Phase	Speed R.P.M.	Wheel Size	Hole Dia.	Net Wgt. (lbs.)	Ship Wgt. (lbs.)	Net Price
¼	V141	115 60 cyl. only	SINGLE	3440	6"x¾"	½"	32	38	$ 59.00
⅓	V131	115	SINGLE	3450	6"x¾"	½"	55	63	$ 72.00
	V132	230	SINGLE						75.00
	V133	208/220/440	THREE						75.00
½	V-121	115	SINGLE	3450	7"x1"	⅝"	77	82	$110.00
	V-122	230	SINGLE						115.00
	V-123	208/220/440	THREE						115.00
¾	V-341	115/230	SINGLE	3450	8"x1"	⅝"	83	92	$150.00
	V-343	208/220/440	THREE					88	
1	V101	115/230	SINGLE	1725	10"x1"	¾"	163	168	$200.00
	V103	208/220/440	THREE						

Eye Shields not furnished unless specified . . . Indicate type desired. Illuminated Eye Shields adaptable to ½ HP — ¾ HP and 1 HP Bench Grinders Only. Model ES-201 Eye Shield fits all grinders.

EYE SHIELDS

ES-101 ILLUMINATED EYE SHIELD

Double socket for 2 bulbs eliminates shadow. Metal frame holds 2 pieces of 4"x6" glass, 1 piece safety glass supported by 1 piece window glass, readily replaceable when pitted. Rigid support prevents swivelling for safety. Light is thrown directly on wheel and work. Bulbs easily replaced.

Shipping weight 4 lbs. NET PRICE **$15.00** each

ES-201 GLASS EYE SHIELDS

Sturdy metal frame holds 3"x5" shatterproof glass. Furnished complete with screw, clamp and metal holding rod. Shipping weight 2 lbs.

NET PRICE **$3.50** each or **$6.00** per pair.

PEDESTAL STAND FOR BENCH GRINDERS

Built of heavy sheet steel, rigidly braced and welded. Furnished complete with removable water pot. Jet black finish. Four holes in base for fastening to floor. Top plate drilled to accommodate all bench grinder models listed above.

Model GP-1
Net Price $40.00

Height .....34½"
Base .....10"x12"
Top .....10"x11"
Net Weight.....56 lbs.
Shipping Weight 70 lbs.

(All prices for accessories are NET as shown)

A-210

A-225

A-286

A-255 A-256

A-226

A-210	Grinding Wheel 4"x½"x⅜" hole	**$2.00**
A-225	Wire Wheel Brush 4"x½"x⅜" hole	**1.60**
A-226	Carbon Removing Brush 1⅛" diameter	**1.50**
A-286	Cloth Buffing Wheel 4"x⅜" hole	**.85**
A-255	Arbor or Mandrel ¼" shank	**.85**
A-256	Arbor or Mandrel ⅜" shank	**.85**

Washers and nuts are provided with arbors or mandrels.
Grinding wheels, cloth buffs and wire wheel brushes require arbors.

A-288

8B-430
12D-430

†

A-291 A-292

A-288	Feed Screw Attachment for larger drills	**$8.00**
A-291	No. 1 Morse Taper Socket for ½" drill	**7.50**
A-292	No. 2 Morse Taper Socket for ⅝", ¾" and ⅞" drills	**8.00**

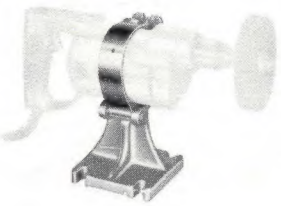
† Key-chuck heavy duty, 3-jaw, geared type, can be supplied for replacement on any size drill (¾" max.). See page 11.

Specify Serial No. of drill when ordering.

7A-1	Rubber flex chuck key holder (fits key No. 7)	**$ .30**
2B-1	Rubber flex chuck key holder (fits key No. 2)	**.30**
8B-430	Pistol Drill Side Handle (complete) (1½" ring)	**2.00**
12D-430	Side Handle (complete) (1⅞" ring)	**1.75**
8B-43-300	Side Handle Ring Assembly	**1.00**
8B-43-1	Side Handle	**.85**
Two-Prong	Special spring action attachment plug, non-slip	**.25**
3P-1	Three prong Polarized Plug	**1.60**
3PA-1	Polarized Plug Adapter (converts 3 prong to 2 prong)	**.75**
18G-1	18 Ga., 3 Wire Type S Cord — ft.	**0.25**
16G-1	16 Ga., 3 Wire Type S Cord — ft.	**0.25**
18G-8	18 Ga., 8 ft. Cord Set (w/plug)	**2.00**
18GJ-8	18 Ga., 8 ft. Cord Set (w/plug)	**2.00**
16G-10	16 Ga., 10 ft. Cord Set (w/plug)	**2.50**
16G-15	16 Ga., 15 ft. Cord Set (w/plug)	**3.85**
12GA	½ lb. Grease — per can	**.85**
1GA	1 lb. Grease — per can	**1.25**

HORIZONTAL BENCH BASES

MODEL A-25



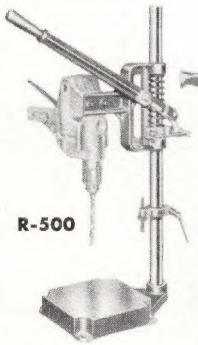
Adaptable to drill models S-114, HS-114, S-214, S-256, S-238, SF-238, S-412, BF-312 and S-512. Speed of Models S-114, HS-114 and S-214 are best suited for bench grinding, buffing and polishing operations.

Shipping weight 3 lbs.
NET PRICE...**$6.40**

IMPORTANT...
When ordering accessories or parts, specify model and serial number...avoiding possible error...insuring faster delivery.

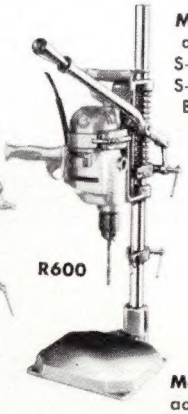
DRILL PRESS STANDS (Bench and Wall Types)

Model R-500
For drill models 612 and 613

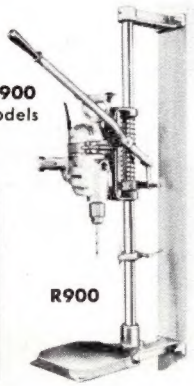

R-500

Model R31A
adaptable to drill models S-114, HS-114, S-214, S-256, S-238, SF-238, S-412, BF-312, S-512

R31A


R600

Model R600 and R900
adaptable to drill models C-122, D-582, E-343, K-783, M-103


R900

SPECIFICATIONS	R31-A	R500	R600	R900
Height of Post	24"	29½"	36"	48"
Max. Feed	3½"	3½"	5½"	5½"
Size of Base	8"x8"	8"x8"	10"x10"	10"x10"
Chuck to Base — Max.	13"	16"	17½"	27½"
Chuck to Post	5¼"	6⅜"	6½"	6½"
Wgt. less Drill	21 lbs.	23 lbs.	45 lbs.	73 lbs.
Back Board Size	....	....	....	54"x7"x2"
Ship. Weight	25 lbs.	25 lbs.	33 lbs.	90 lbs.
Net Price	$35.00	$37.50	$55.00	$60.00

THE Milwaukee GUARANTEE

Every MILWAUKEE Tool is thoroughly inspected and tested before leaving the factory...and each is guaranteed against defective workmanship and materials.

Should any trouble develop, return the complete tool *prepaid* to the Factory or nearest Authorized MILWAUKEE Service Station. If inspection shows trouble is caused by defective workmanship or material, all repairs will be made without charge, F.O.B. Factory or Authorized Service Station.

The guarantee does not apply where:

Repairs or attempted repairs have been made by persons other than Factory or Authorized Service Station personnel.

Repairs are due to normal wear.

The tool has been abused or in an accident.

Misuse is evident (Includes among other things, overloading the tool beyond its rated capacity; use of the tool after partial failure; or use with improper accessories).

No other guarantee, written or verbal, is authorized on MILWAUKEE products.

MILWAUKEE ELECTRIC TOOL CORP.

(All prices for accessories are NET as shown)

YOU'RE NEVER FAR AWAY FROM

Dependable Milwaukee

TOOL REPAIR SERVICE

LOOK FOR THIS SIGN

We recognize our obligation to furnish guaranteed service at reasonable cost. To insure prompt, efficient service a network of more than 45 Authorized MILWAUKEE Service Stations has been established. These stations are staffed with factory trained service men. Normal or warranty repairs and genuine MILWAUKEE replacement parts are available at these points. This means prompt attention by men who know MILWAUKEE tools and how to keep them performing at their very best.

Authorized SERVICE STATIONS FOR Milwaukee PORTABLE ELECTRIC TOOLS

- **ALBUQUERQUE**
  Appliance Service Center
  5505 Silver Ave. S.E.
  Albuquerque, New Mexico
- **ATLANTA**
  Tools Service Co.
  225 Simpson St., N.W.
  Atlanta, Georgia
- **BIRMINGHAM**
  Electric Tool Company
  4909 - 5th Ave. South
  Birmingham, Alabama
- **BOSTON**
  W. J. Connell Company
  210 Needham Street
  Boston 64, Mass.
- **BUFFALO**
  Rochester Oil Burner Pump and Control Service
  355 Amherst St.
  Buffalo, New York
- **CHARLOTTE**
  Portable Tool Service
  1100 North Tryon St.
  Charlotte, North Carolina
- **CHICAGO**
  Milwaukee Electric Tool Corp.
  3040 No. Ashland Ave.
  Chicago, Illinois
- **CINCINNATI**
  Seifert Tool Service
  7124 Montgomery Road
  Cincinnati 36, Ohio
- **CLEVELAND**
  Kay-Dee Electric Motor Repair, Inc.
  3407 Saint Clair Avenue
  Cleveland, Ohio
- **COLUMBUS**
  B. R. Shoemaker & Sons
  1222 Cleveland Ave.
  Columbus 3, Ohio
- **DALLAS**
  Beckman Tool Rental & Supply
  4234 Harry Hines Blv'd at Douglas
  Dallas, Texas
- **DENVER**
  Bartell Tool Service
  39 West 11th Ave.
  Denver 4, Colorado
- **DES MOINES**
  Iowa Service Co.
  114 12th Street
  Des Moines, Iowa
- **DETROIT**
  Renu Electric Company
  20163 John R Street
  Detroit 3, Michigan
- **FRESNO**
  Kimmerle Brothers
  2230 Inyo Street
  Fresno, California
- **HARTFORD**
  Hartford Element Appliance Service Co.
  1242-46 Main Street
  Hartford, Connecticut
- **HOUSTON**
  Arnold Electric Co.
  1827 W. Alabama Street
  Houston, Texas
- **IDAHO**
  K. C. Electric
  814 N. Manville
  Boise, Idaho
- **INDIANAPOLIS**
  Electric Tool Service Co.
  34 W. Tenth Street
  Indianapolis, Indiana
- **JACKSONVILLE**
  Turner Electric Works
  1020 East 8 St.
  P.O. Box 4247
  Jacksonville 1, Florida
- **KANSAS CITY**
  Heath Electric Service
  518-20 East 16th Street
  Kansas City 8, Mo.
- **LITTLE ROCK**
  Witcher Electric Motor Service
  108 So. Chester
  Little Rock, Arkansas
- **LOS ANGELES**
  Milwaukee Electric Tool Corp.
  2569 W. Olympic Blvd.
  Los Angeles 6, California
- **MEMPHIS**
  Parker Electric Company
  1316 Madison Ave.
  Memphis 4, Tennessee
- **LOUISVILLE**
  Electric Tool Service Corp.
  757 Logan Street
  Louisville, Kentucky
- **MIAMI**
  Florida Electric Motor Co.
  235 N.W. 2nd Ave.
  Miami, Florida
- **MINNEAPOLIS**
  Empire Tool Repair
  3508 Chicago Ave.
  Minneapolis 7, Minnesota
- **NASHVILLE**
  Tennessee Electric Motor Service
  408 Sixth Ave. So.
  Nashville 3, Tenn.
- **NEWARK**
  Able Portable Electric Tool Co.
  395 Mulberry St.
  Newark 2, New Jersey
- **NEW ORLEANS**
  New Orleans Armature Wks. Inc.
  2311 Tehoupitoulas St.
  New Orleans 13, Louisiana
- **NEW YORK**
  Milwaukee Electric Tool Corp.
  35-12 Crescent St.
  Long Island City 6, New York
- **OKLAHOMA CITY**
  Carl Krueger Electric Serv. Co.
  2410 N. Robinson Street
  Oklahoma City, Oklahoma
- **OMAHA**
  Thacker Electric Co.
  2217 Cuming St.
  Omaha, Nebraska
- **PHILADELPHIA**
  Milwaukee Elec. Tool Corp.
  8921 W. Chester Pike
  Upper Darby, Pa.
- **PHOENIX**
  Reliable Electric Co.
  802 W. Jefferson St.
  Phoenix, Arizona
- **PITTSBURGH**
  Snyder Electric Company
  1919 Chateau Street
  Pittsburgh 33, Pennsylvania
- **PORTLAND**
  Donaldson Auto Electric Service
  500 N.W. 14th Avenue
  Portland 9, Oregon
- **RICHMOND**
  Roy's Electric Motor Service
  3201 Norfolk St.
  Richmond 21, Virginia
- **ROCHESTER**
  Rochester Oil Burner Pump and Control Service
  116 No. Plymouth Ave.
  Rochester 4, N.Y.
- **SAN FRANCISCO**
  Kimmerle Brothers
  226 Eleventh Street
  San Francisco 3, California
- **SEATTLE**
  Milwaukee Electric Tool Corp.
  405 Cedar St.
  Seattle, Washington
- **ST. LOUIS**
  Standard Electric Company, Inc.
  3880 Washington Boulevard
  St. Louis 8, Missouri
- **BALTIMORE-WASHINGTON AREA**
  Turner Electric Company
  7630 Woodbury Drive
  Takoma Park, Maryland
- **TOLEDO ELECTRIC TOOL SUPPLY**
  3156 Upton Ave.
  Toledo 13, Ohio

IN CANADA

- **EDMONTON**
  Electric Motor Service Ltd.
  10589 - 106 Street
  Edmonton, Alberta, Canada
- **MONTREAL**
  Instrument Sales & Service
  1089 Bleury St.
  Montreal, Quebec, Canada
- **TORONTO**
  Shock Electric Co.
  14 Breadalbane Street
  Toronto, Canada
- **VANCOUVER**
  Armature Electric Co. Ltd.
  1055 Seymour St.
  Vancouver 2, British Columbia
- **WINNIPEG**
  Western Elevator & Motor Co., Ltd.
  123 Princess Street
  Winnipeg, Manitoba, Canada

MILWAUKEE ELECTRIC TOOL CORPORATION

5316 WEST STATE STREET — MILWAUKEE 8, WISCONSIN

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